Certified Validation Report

Part A: Provided by Validator

Audit Information:

Water Supplier Name: Calaveras County Water District – Ebbetts Pass PWS ID: CA0510016

System Type: Potable Audit Period: FY 19-20

Utility Representation: Brad Arnold, Damon Wyckoff, Jessica Self, Jesse Hampton, John Gomes

Validation Date: 12/22/20 Call Time: 1 PM Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 63

ILI: 1.54 Real Loss: 68.606 MG Apparent Loss: 7.211 MG

Non-revenue water as percent of cost of operating system: 2.1%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. 🗷

If not, rejected recommendations are included here.

Validator Information:

Water Audit Validator: Chris Hewes Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA



Certified Validation Report Template

Part B: Provided by Utility

Water Supplier Name: Calaveras County Water District – Ebbetts Pass Water Supplier ID Number: CA0510016 Water Audit Period: FY 19-20

Water Audit & Water Loss Improvement Steps:

<u>Utility to provide steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:</u>

- CCWD made significant progress on Reach 1 Pipeline Replacement Project, to replace approximately 24,000 linear feet of aging transmission pipeline which has contributed to past system losses and has reached the end of its useful life. CCWD expects this project, completed November 2020, to significantly decrease water losses in the lower Ebbetts Pass system and help increase system efficiencies.
- CCWD has also made significant progress on the Techite Pipeline Replacement Project, another source of multiple conveyance leaks in the Upper Ebbetts Pass system, replacing nearly 7,000 feet of 10-inch water main also completed in November 2020.
- CCWD staff have continued to develop enhanced data collection that helps inform our understanding of improvements which need to be made to infrastructure and data management systems. Staff continues to work on implementing a water loss action plan including:
 - Testing and validating production meters.
 - Implementing a meter testing and replacement program.
 - Utilizing existing system models and data necessary to evaluate overall system performance.
 - Conversion of end-meters to Advanced Metering Infrastructure (AMI) using Automated Meter Reading (AMR) technologies
 planned for all customer meters within coming years likely completed in FY 2021-2022. Will help transition CCWD from bimonthly to monthly billing and significantly improve CCWD data availability and management efforts using Tyler Technologies
 (public sector) data software.
 - CCWD has implemented new tools (Smartsheet, Mobile MMS) to better track Customer Service Work Orders and AWWA water audit results, scores, and notes for referencing and use in public outreach.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)	Executive Position	Signature	Date
	— DocuSigned by:		
Michael Minkler	GM	Michael Minkler	12/29/2020
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